Final Year Project Proposal

Annapurna Distributors

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Abstract

The following report is based on web application about distribution management system specially focused on business such as distributors and dealers for easy management for the business. This project falls under the part of the interim report for the final year project. It is a report consisting of Introduction, aims & objectives, background & literature review, similar system, methodologies, tools & techniques, work completed and further planning. The major objective of this system is to develop web application "Annapurna Distributors" for easy management of products being imported and exported from a distributor or dealer and helps customer to make online ordering as well.

Section 1: Introduction

1.2 Introduction to Subject Matter

Aluminum is the most abundant naturally occurring metal in the earth's crust that is found literally everywhere which is an essential element of modern life. It is a chemical element with symbol AI and atomic number 13 which is silvery white, soft, non-magnetic and ductile metal in the boron group. It also is the third most abundant element after oxygen and silicon. Virtually every person in most of the world uses aluminum every single day as it is widely used in automotive, construction and a key raw material in aerospace industries.

Innovative application for aluminum are all around us. The car we drive is most likely to have aluminum parts and houses or office building uses aluminum windows and doors. It's also used to make household appliances and utensils. Similarly, it's also used in electric wires and cables as it conducts electricity well. Due to all these reasons, the application of aluminum is increasing day to day for different purposes for different benefits. (The Aluminum Association, n.d.)

1.2 Current Scenario

Currently, the market size of aluminum is increasing day by day and will reach new heights and the market size of aluminum can be calculated by 2025. Aluminum is being produced astronomically. Capacity grew significantly in recent years, such that China accounted for more than half of global primary production in 2017 (USGS, 2019). This enabled robust energy intensity declines and put China's average energy intensity at the best-available-technology performance level in 2014. More and more people are being aware of the importance of aluminum in country's energy and manufacturing future and being involved in this business. However there are still many people from various countries who are quite ignorant and aren't interested like our country Nepal. Even though it is widely used, many people doesn't know the importance of aluminum over other elements. In context of Nepal, many people are still unaware of its advantages and are still using products used in the past such as woods and there are still some people that find it hard to get hold of aluminum in large amounts. So, distribution of aluminum is very important for economic support to the country as well as for ourselves. (Araceli Fernandez Pales, 2019)

1.3Problem Domain

High levels of aluminum occur near mining sites; small amounts of aluminum are released to the environment at the coal-fired power plants or incinerators. Aluminum in the air is washed out by the rain or normally settles down but small particles of aluminum remain in the air for a long time.

Acidic precipitation is the main natural factor to mobilize aluminum from natural sources and the main reason for the environmental effects of aluminum, however, the main factor of presence of aluminum in salt and freshwater are the industrial processes that also release aluminum into air.

In water, aluminum acts as a toxic agent on gill-breathing animals such as fish by causing loss of plasma- and hemolymph ions leading to osmoregulatory failure. Organic complexes of aluminum may be easily absorbed and interfere with metabolism in mammals and birds, even though this rarely happens in practice.

Aluminum is primary among the factors that reduce plant growth on acidic soils. Although it is generally harmless to plant growth in pH-neutral soils, in acid soils the concentration of toxic

Al^{3+} cations increases and disturbs root growth and function. Wheat has developed a tolerance to aluminum, releasing organic compounds that bind to harmful aluminum cations. Sorghum is believed to have the same tolerance mechanism.

Aluminum production possesses its own challenges to the environment on each step of the production process. The major challenge is the greenhouse gas emissions. These gases result from electrical consumption of the smelters and the byproducts of processing. The most potent of these gases are perfluorocarbons from the smelting process. Released sulfur dioxide is one of the primary precursors of acid rain.

1.4 Scope

As already mention above, aluminum is taking the market by storm. After steel, aluminum is the second metal that's used the most. Investors like aluminum. They can play the aluminum industry by trading aluminum on commodity exchanges. Investors can also investment in aluminum plays. Aluminum is the metal that's traded the most. 150 years ago aluminum was considered to be silver from clay and an extremely expensive kind of metal. Today, aluminum ranks number two in the consumption volumes among all the metals, surpassed only by steel. In the coming decades the demand for aluminum will continue increasing at unstoppable rates. Recent developments in the motor industry, the rapid growth of cities, new potential uses of aluminum as a substitute to copper in the power industry – these and many other trends mean that the winged metal is well placed to strengthen its dominant position as a key structural material of the 21st century.

Every year aluminum production grows in the world as a result of the ever-increasing demand for this metal. On average, world aluminum demand grows 5-7% annually. For example, the global consumption of primary aluminum in 2014 grew 7% when compared with 2013 – amounting to 54.8 million tones. And based on data in 2015, world demand is expected to increase by additional 6% – amounting to 58 million tones. In context of Nepal, it is also a growing business as more and more people are eventually being aware of its advantages over other elements. (how aluminum market works)

1.5 Aims and Objectives

Aims:

The main aim of this project is to develop a web-based application for customers to make online ordering of the product and view the products. The admin and staffs will be able to add data according to their wish and graphical representations of the data stored can be shown.

Objectives:

Some of the major objectives of this project are:

1. To present the distributor as an excellent, or the best, choice to its target market.
2. To make it easy for customers to make orders.
3. It saves time of a user in in unnecessary hassles.

Section 2: Background

This distribution management system project is a web based application. This web application allows the distributor to handle all of its activities. Interactive GUI and the ability to manage the different product ordering from this app. The business owner of the distributor is a very busy person and does not have a time to manage all the entire thing personally. The application gives him the power and flexibility to manage the entire system from this application.

This distribution management system, is a user-friendly web-based system that is designed to help owners run their business in more effective and profitable way. It simplifies the entire ordering system to ensure the occupancy.

2.1 Features

1. Users can log into the system.
2. Users can search for the specific product.
3. Customers can send feedbacks.
4. Users can order maximum numbers of product they require.
5. Admin can add new product to the database and display its availability.
6. Admin can keep tracks of the products that were exported and imported.
7. Admin can remove users.

2.2 Similar System Comparision

2.2.1 OnlineMetals.com

It is the world's leading eCommerce metal and plastics supplier, Online Metals specializes in cut-to-size, small to medium quantity orders, shipped direct to any location. OnlineMetals.com operates as an Internet-based metals supplier. The company offers aluminum, copper, brass, stainless, tool steel, hot and cold rolled steel, titanium, plastics, nickel alloys, and carbon fiber.

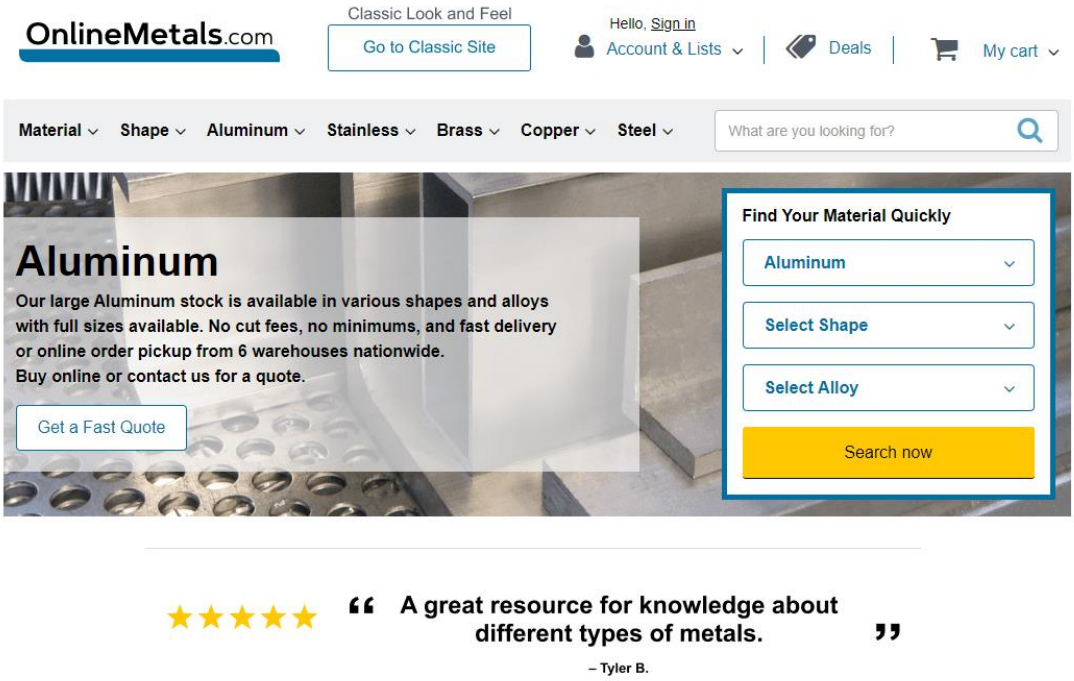

Figure 1: OnlineMetals.com Page

2.2.2 MetalsDepot

Metals Depot retails metal products. The Company offers aluminum, brass, hot rolled, stainless, cold finish, tool, and alloy steel products. Metals Depot is America's Metal Superstore for complete supplier for industrial metals worldwide. Stocking over 50,000 Shapes, Sizes, Types and Lengths of Steel, Aluminum, Stainless, Brass, Copper, Cold Finish Steel, Tool Steel and Alloy Steels among our network of warehouses, at Wholesale Prices.

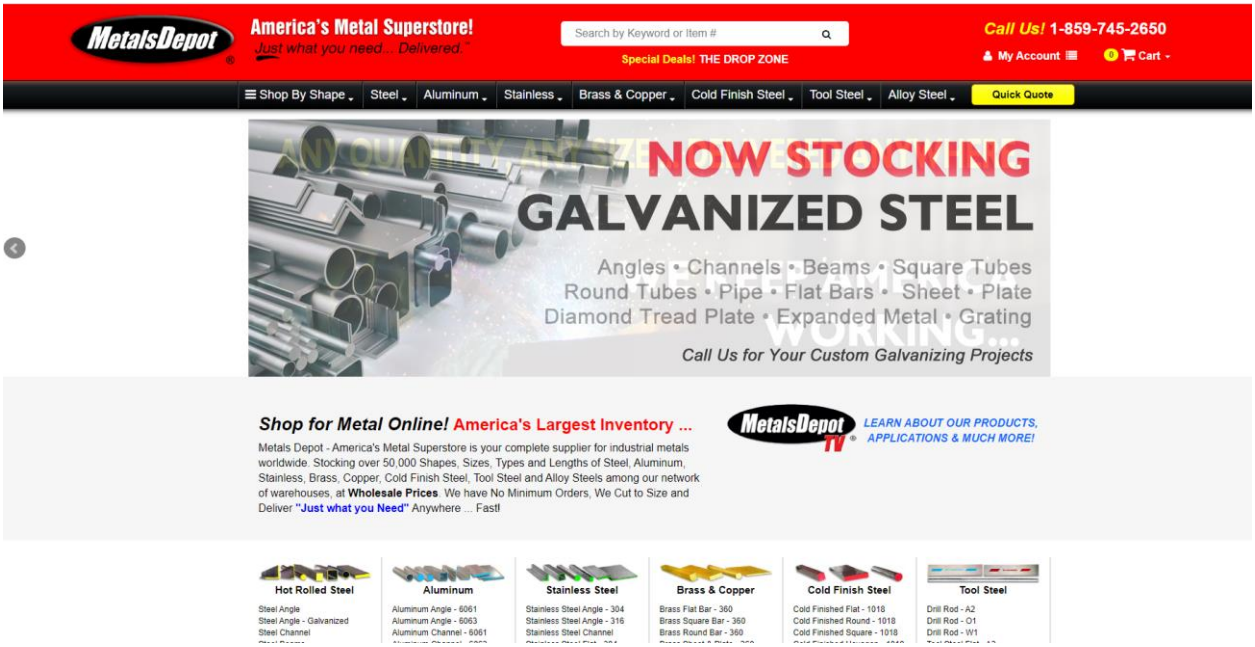

Figure 2: MetalsDepot page

2.3 Conclusion

From above findings of this interim report, many conclusions can be drawn which concerns the importance of this project in real world and in development of managerial, programming language in detail and time managing skills at the end of this project. This interim report helps in indicating the different life cycles for involving in certain software project with huge skills of documentation and programming.

References

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